ALEEM ISIAKA Senior Software Engineer

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Summary

I am a Software Engineer with extensive expertise in TypeScript, Go, and Kubernetes, bringing nearly ten years of practical experience to the team. I have a proven track record of tackling complex issues and driving measurable, results-driven optimization initiatives. I am a proactive and results-oriented professional, underpinned by systems thinking, which enables me to manage distributed teams effectively, facilitating a high-learning and growth-enabling environment. My in-depth understanding of modern DevOps and SRE practices helps me to design robust and dependable systems, proactively mitigating downtime and ensuring operational excellence.

SKILLS/TECHNICAL EXPERTISE

- **Backend:** TypeScript, Go, Python
- **Frontend:** React, Vue
- **Database:** Postgres, MySQL, MongoDB, Redis
- **Cloud:** AWS, Azure, Cloudflare
- **SVC:** Github/Gitlab
- **Languages:** English(Proficient)

- **Service Mesh:** Istio, Linkerd, Consul
- **Orchestration:** Kubernetes
- **IaC:** Terraform, Puppet, Ansible
- **Streaming:** Kafka, Elastic Search
- **Monitoring:** Grafana, Datadog, Prometheus
- **CI/CD:** GitHub Actions, Gitlab CI, CircleCI

WORK EXPERIENCE

Senior Software Engineer, MC² Finance *(Zug, Switzerland)*   *November 2024 – Present*
Tools: *Cloudflare, TypeScript, NuxtJS, OpenAI, OpenRouter, LangChain, Datadog, Github Actions, Postgres, Jest*
- Led the design and implementation of user engagement features using Cloudflare Queues (AI insights generation, following system) for various assets and portfolios on the platform, enhancing portfolio and assets observability and improving engagements from 5 clicks to 2.
- Implemented Albert AI - The AI agent for the company's product – using Eliza OS and LangChain, bringing a natural way for users to get insights on their assets and increasing engagements and user interactions by 3%.
- Led the design and implementation of a token/portfolio alerting system on Cloudflare, ensuring near-real-time updates on the current price of assets and improving active users by 4% from 8%.
- Implemented app optimization strategy on NuxtJS, reducing the frontend bundle size by 10%, and improving the build time by 15% from 5 minutes to 3 minutes.
- Implemented custom alerts in Datadog and Prometheus for critical events, ensuring immediate notification and reducing Mean Time to Resolution (MTTR) for server-side issues.

Senior/Lead Software Engineer, Onboardbase *(California, US)*   *June 2023 – October 2024*
Tools: *AWS, TypeScript, Kubernetes, Linux, Go, Python, Postgres, Prometheus, Ansible, Terraform, Istio, Redis, Grafana, Consul, GraphQL*
- Led a team of 5 engineers in the development of SDKs (JavaScript, Golang, Ruby, Python) and CLI client, improving the product adoption by a notable 60%.
- Developed a session-based encryption mechanism, achieving a significant 95% decrease in unauthorized access incidents, fortifying sensitive data protection.
- Provisioned a highly scalable, available infrastructure on AWS and Digital Ocean, reducing latency by an impressive 80% and enabling a throughput of over 10K RPS, and further improving the secret read/write ratio from 10:1 to 83:1
- Created seamless CI/CD pipelines on Gitlab for the company's services (web apps, backend APIs/CLI tools) and ensured an average of 98% uptime.
- Responded to a critical AES key misconfiguration in a live environment, restored encrypted secrets within 2 hours, and prevented further downtime through rapid incident resolution and root cause documentation.
- Utilized Istio to implement a service mesh, enabling mTLS (mutual Transport Layer Security) for all microservice communication, which fortified sensitive data and ensured secure, authenticated inter-service traffic.

Senior Software Engineer, Oasis Living *(London, UK)*   *August 2021 – May 2023*
Tools: *AWS, TypeScript, GCP, React, Cypress, Python, Postgres, CircleCI, Tailwind, GatsbyJS, Playwright*

• Pioneered comprehensive technical documentation via Confluence Pages and Markdown files, resulting in 30% faster onboarding and enhanced team collaboration.
• Implemented Jest and Cypress automated tests in TypeScript, leading to a substantial 95% drop in critical bugs.
• Designed geolocation tagging using Google's geolocation APIs, yielding a 50% faster response time and an impressive 80% boost in data quality for a React TypeScript/Python web app.
• Optimized Landlord/Tenant web apps, achieving a remarkable 99% augmentation in user experience by reducing build size, removing redundant event handlers, and replacing packages with more efficient variants.
• Established an efficient CI/CD pipeline on CircleCI and logging with Datadog, reducing deployment time by 40%.

Lead Software Engineer, uduX *(Lagos, Nigeria)*   *June 2022 – January 2023*
Tools: *AWS/GCP, TypeScript, Go, React, Cypress, Postgres/MongoDB, Terraform, Nginx, Puppet, Kubernetes*
• Led a team of six developers in re-engineering and developing the company's streaming product, following SDLC and agile methodologies.
• Engineered CLI tools using Golang and bash scripting, resulting in a substantial 90% reduction in processing time for DDEX manifest conversion.
• Designed and implemented a fault-tolerant runtime environment on EKS, managed cluster health, and smooth deployment strategies for the different microservices of the product.
• Implemented traffic routing rules and fault injection to test service resilience, proactively preventing downtime and improving overall reliability.
• Spearheaded optimization efforts, reducing API latency from 10s to 0.9s.

Software Engineer, Josplay *(Lagos, Nigeria)*   *June 2020 – July 2021*
Tools: *GCP, TypeScript, Go, React, Cypress, Postgres/MongoDB, Kong, Puppet, Kubernetes, Travis, Jenkins*
• Engineered high-performance microservices with K8S clusters using GKS, enabling >10K streaming RPS on Google Cloud Platform.
• Designed and implemented an efficient multi-format music player supporting MP3 and HLS, with a 99% success rate for high availability and quality.
• Implemented highly compatible HLS media player, ensuring optimal streaming experience in 90% of web/mobile browsers.
• Innovated a relay radio service with background AI for uninterrupted music suggestions and playback.
• Led inclusive team practices for improved code reviews and adherence to engineering best practices.
• Orchestrated a robust product release pipeline, ensuring a safe, efficient, and fault-tolerant CI/CD pipeline using Travis, CircleCI, and GitHub Actions.

Certifications
Certified Kubernetes Application Developer (CKAD) [Credly Link](#)
Prometheus Certified Associate (PCA) [Credly Link](#)
HashiCorp Certified: Terraform Associate [Credly Link](#)
HashiCorp Certified: Vault Associate [Credly Link](#)

Publications
[SmashingMagazing](#): Technical content on JavaScript, React, NodeJS, and GitHub Actions.
[LogRocket](#): Technical content on JavaScript, Firebase, and Blazor
[Personal Blog](#): DevOps, Systems Programming, algorithms, and web development.

Projects
[Clio](#): This is a personal project that documents my readings on research papers, journals, and popular books.
[ObjectSpread](#): The projects span frontend, backend, and utility libraries. I run to them to speed up my development work, as techniques are repetitive. ObjectSpread makes the solutions available to the public.

Education
BSc. Computer Science   (2020 - 2023)
Kwara State University

HND. Mech. Engineering   (2016 - 2018)
Lagos State Polytechnic